

★ ★ ★ SUBMARINE FORCE ★ ★ ★

UNCLASS BRIEF •



SUBFOR TODAY

BANGOR, WA

COMSUBGRU 9
SUBDEVRON-5 (3)

SUBRON-17 (7)
SUBRON-19 (3)

PEARL HARBOR, HI

COMSUBPAC
SUBRON-1 (9)
SUBRON-7 (10)

SAN DIEGO, CA

SUBRON-11 (6)

FORCE STRUCTURE

54 - SSNs (31/23)

PAC/LANT

4 - SSGNs (2/2)

14 - SSBNs (8/6)

SUBFOR Manpower: **Total: 22,910**

Officer: 2,201 A + 489 R

Enlisted: 16,914 A + 1,075 R

Civilian: 1,720

Contractor: 511

GROTON, CT

SUBDEVRON-12 (8)
SUBRON-4 (7)

NORFOLK, VA

COMSUBFOR
SUBRON-6 (8)

KINGS BAY, GA

COMSUBGRU-10
SUBRON-16 (4)
SUBRON-20 (4)

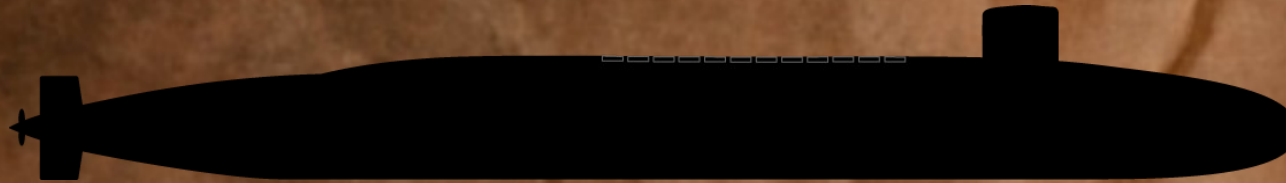
Guam
SUBRON-15 (3)

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Last Updated: AUG 2014



CURRENT SUBMARINE CLASSES

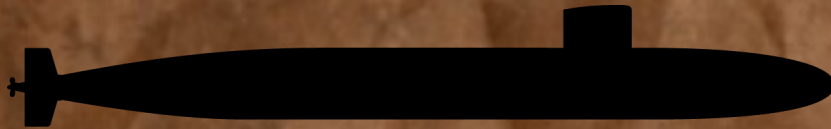


Ohio class

Length: 560 feet, Beam: 42 feet

Displacement: Approx. 18,750 tons submerged

Speed: 20+ knots

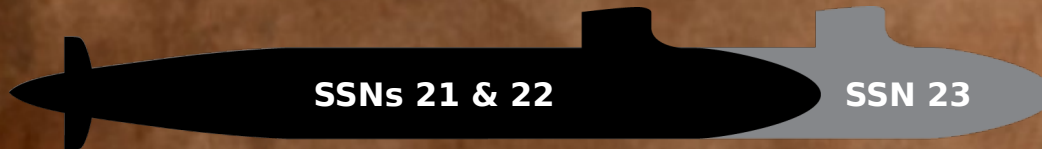


Los Angeles class

Length: 360 feet, Beam: 33 feet

Displacement: Approx. 6,900 tons submerged

Speed: 20+ knots



Seawolf class

Length: SSNs 21 & 22: 353 feet; SSN 23: 453 feet,

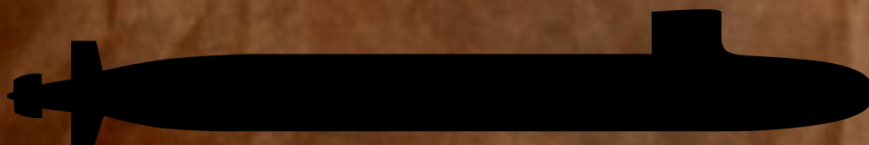
Beam: 40 feet

Displacement:

SSNs 21 & 22: Approx. 9,100 tons submerged;

SSN 23 Approx. 12,200 tons submerged

Speed: 25+ knots



Virginia class

Length: 377 feet, Beam: 34 feet

Displacement: Approximately 7,800 tons submerged

Speed: 25+ knots

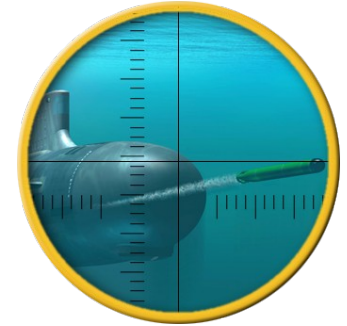
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SUBMARINE OPERATION

- * Undersea Warfare (USW)**
- Global War on Terror (GWOT) &**
- * Maritime Security Operations**
- * ISR / Maritime Monitoring**
- * Information Operations**



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ASW



Strategic Deterrence



Strike



ISR



SUBMARINE FORCE MISSION

SOF



Counter Drug Ops



ASUW



Mine Warfare



Going Where Others

Can't

Covert, Persistent, Mobile, Affordable

Walking the field

Knowing the adversary

- Decisions
- Plans
- Tactics
- Equipment

National Response

- Deter/dissuade
- Engage
- Better tools
- Effective force defense

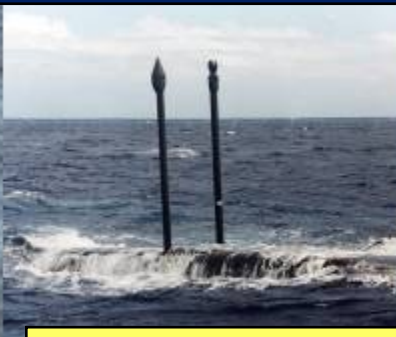
- Better warfighting

- Force Defense**
- ASW
 - ASUW
 - STRIKE

ACT FROM A POSITION OF **UNDERSTANDING**

SPECTRUM OF SUBMARINE WARFARE

STEALTH... AGILITY... ENDURANCE... FIREPOWER



PEACE

**Intelligence
Battlespace
Preparation**

Pre-Hostilities

**Conflict
Escalation**

WAR

**Precision Strike
Anti-Submarine Warfare**

Anti-Ship Warfare

Offensive Mining

Special Operations Forces Support

Mine Reconnaissance

Information Operations

Intelligence Preparation of Battlespace (IPB)

Indication and Warning (I&W)

Intelligence/Surveillance/Reconnaissance

Strategic Deterrence (conducted by)

DIESEL PROLIFERATION

38 COUNTRIES
OVER 368 Diesel
Submarines



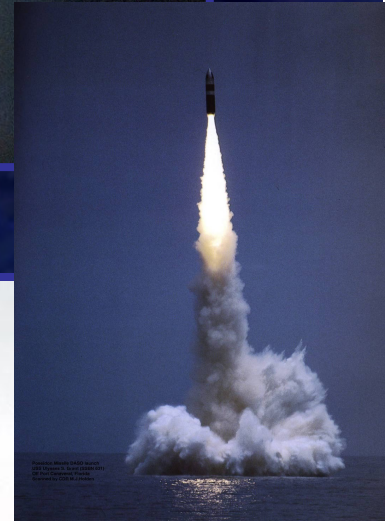
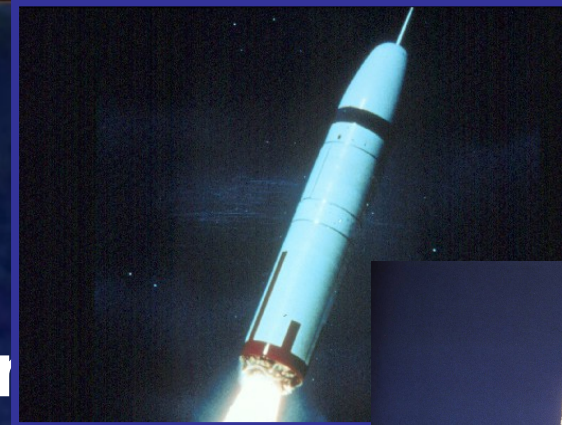
North Korea...53
China50
India15
Pakistan..... 8
Iran 3
Algeria..... 2
Indonesia..... 2

Submarine types shown on map: Kilo, Daphne, Agosta, Type 209, Ming, Song, Sangho, Cakra, Nanggala.

Trident Submarines

Cornerstone of Strategic Deterrence

- 54% of warheads
- 100% of survivable warheads
- 35% of strategic personnel
- 19% of strategic budget
- Over 4000 SSBN patrols since 1960 (770 Trident)



Going Where Others Can't

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Video



Video



Submarine Operations

- ◆ **Undersea Warfare (USW)**
- ◆ **Global War on Terror (GWOT)**
- ◆ **The Road Ahead**



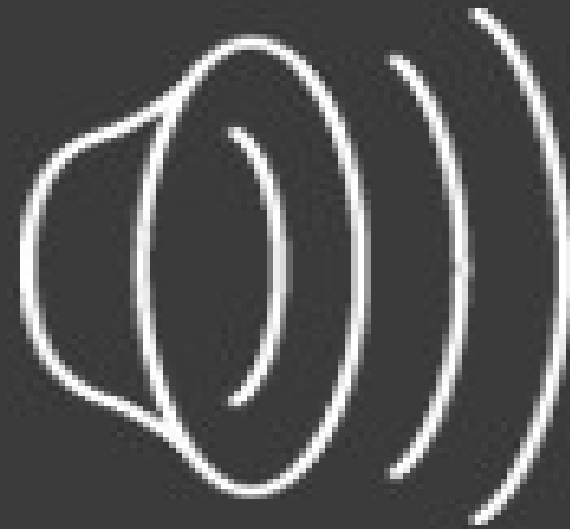
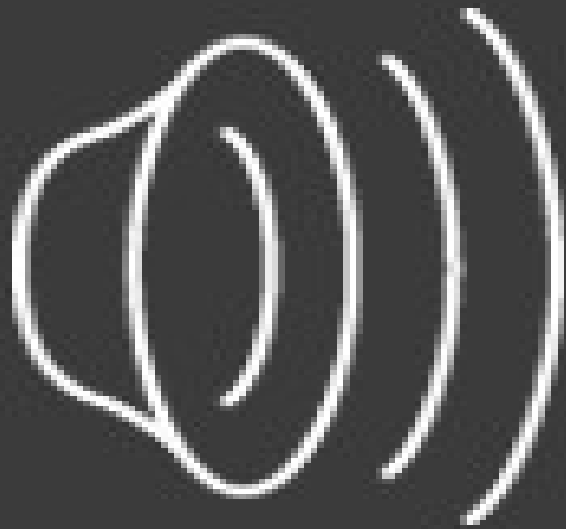
Operation Iraqi Freedom

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12 U.S. SSNs
2 UK SSNs

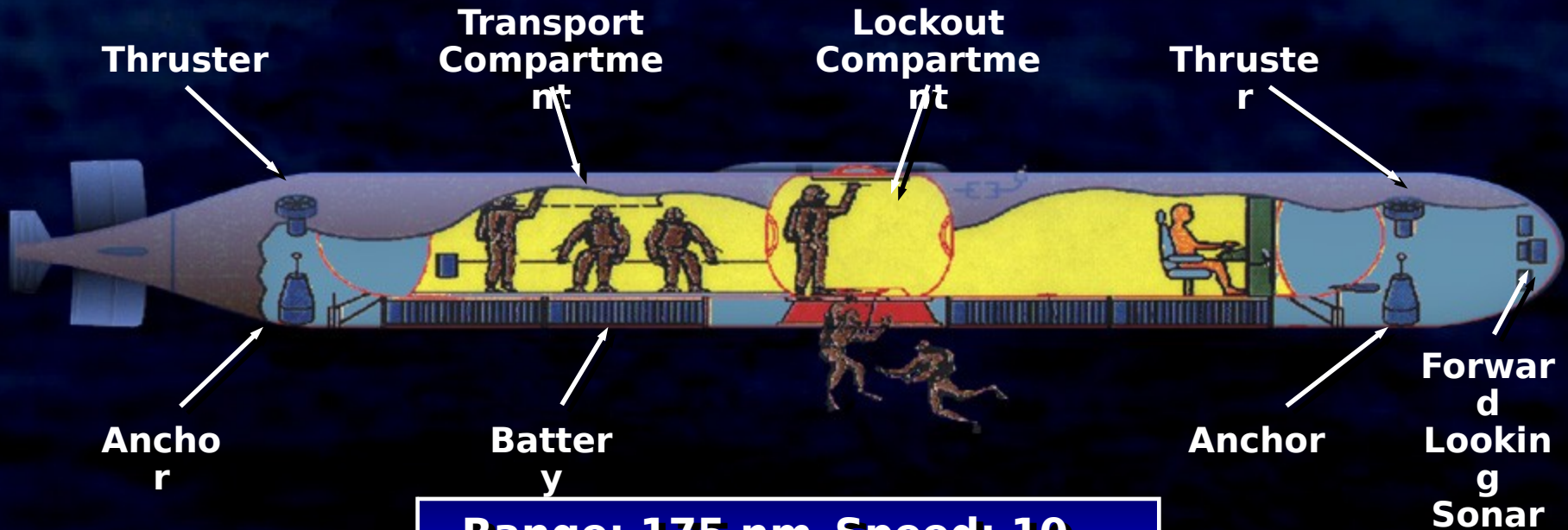


SEAL Delivery



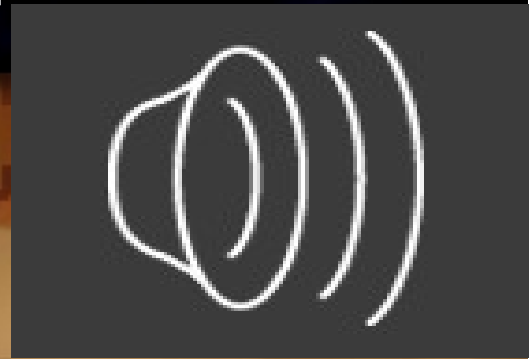
ENDURANCE

Advanced SEAL Delivery System



Range: 175 nm Speed: 10 kts

Beam: 6.75 ft Length: 65.2 ft



Submarine Operations

- ◆ **Undersea Warfare (USW)**
- ◆ **Global War on Terror (GWOT)**
- ◆ **The Road Ahead**



Homeland Defense Capabilities

- ◆ **ISR / Maritime Monitoring**
- ◆ **Information Operations**
- ◆ **Decisive Ship Stopping power**



International Cooperation

- DESI Program
- Submarine Escape and Rescue
 - ISMERLO
 - Escape and Rescue Working Groups




"We have conducted operations with our friends and partners in NATO, maritime security operations in the Pacific, with more activity around South America and in Africa. The ability to bring these forces together, concentrate them, distribute them, and conduct operations adds to the cooperative environment we have around the world."

-- ADM Gary Roughead, Chief of Naval Operations

Diesel Electric Submarine Initiative

- DESI Fleet Exercise Support Program:
 - **First deployment 2001**
 - **Improve coordination of international naval operations**
 - **Train USN using real-world SSKs**
- Participants: **Colombia, Peru, Chile and Canada**
 - **Possible future participants: Argentina, Brazil, Ecuador, and Norway**
- 450 ASW Exercise days over 9 deployments

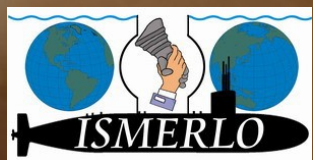


The logo for ISMERLO (International Submarine Escape and Rescue Liaison Office) features a stylized submarine with a conning tower, flanked by two globes. The acronym "ISMERLO" is written in a bold, sans-serif font across the front of the submarine.

International Submarine Escape and Rescue Liaison Office (ISMERLO)

- Coordinate world-wide efforts to assist distressed submarine
- Web-based monitoring, incident notification and information exchange: www.ismerlo.org
- 37 of 42 submarine operating nations participate – including Russia
- Exercise Facilitator - utilize website for LIVEX and CPX
- Successes:
 - Canadian HMCS Chicoutimi casualty off UK in October 2004
 - Russian AS-28 PRIZ rescue off Kamchatka in August 2005





ISMERLO – PRIZ Example

- Upon notification, ISMERLO alert generated via SMS and text beeper
- Used web and telephone conferences to keep nations, logistics, and responders coordinated
- Russia, US, UK, France, Sweden, Australia, and Japan offered or provided rescue assets



National Participation and website updates are essential for providing decision makers real time information and data

VIRGINIA Class

- Built to replace aging Los Angeles class submarines
- Designed for post-Cold War security environment
- USS Virginia, USS Texas, USS Hawaii, USS North Carolina, USS New Hampshire, USS New Mexico, USS Missouri, USS California, USS Mississippi
- Named - Minnesota, North Dakota, John Warner, Illinois, Washington, Colorado, Indiana, South Dakota



USS Virginia (SSN 774)

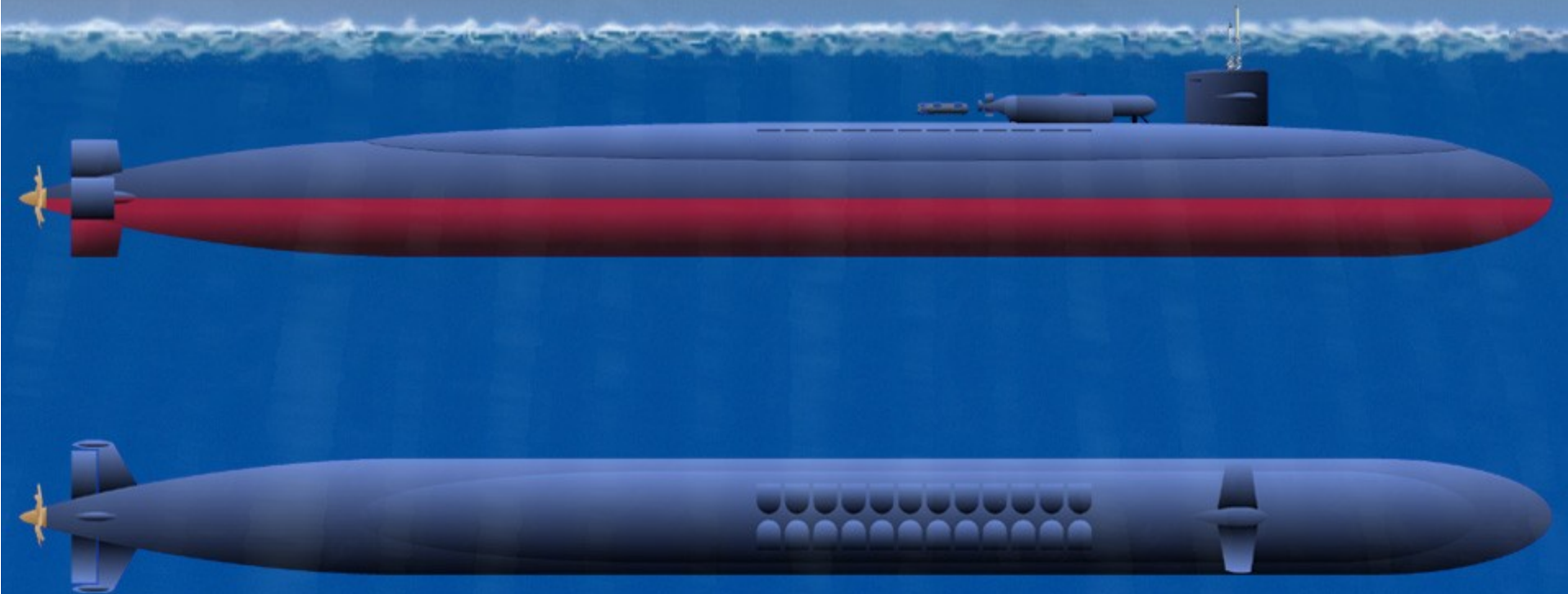


USS VIRGINIA Class – The Future is Now

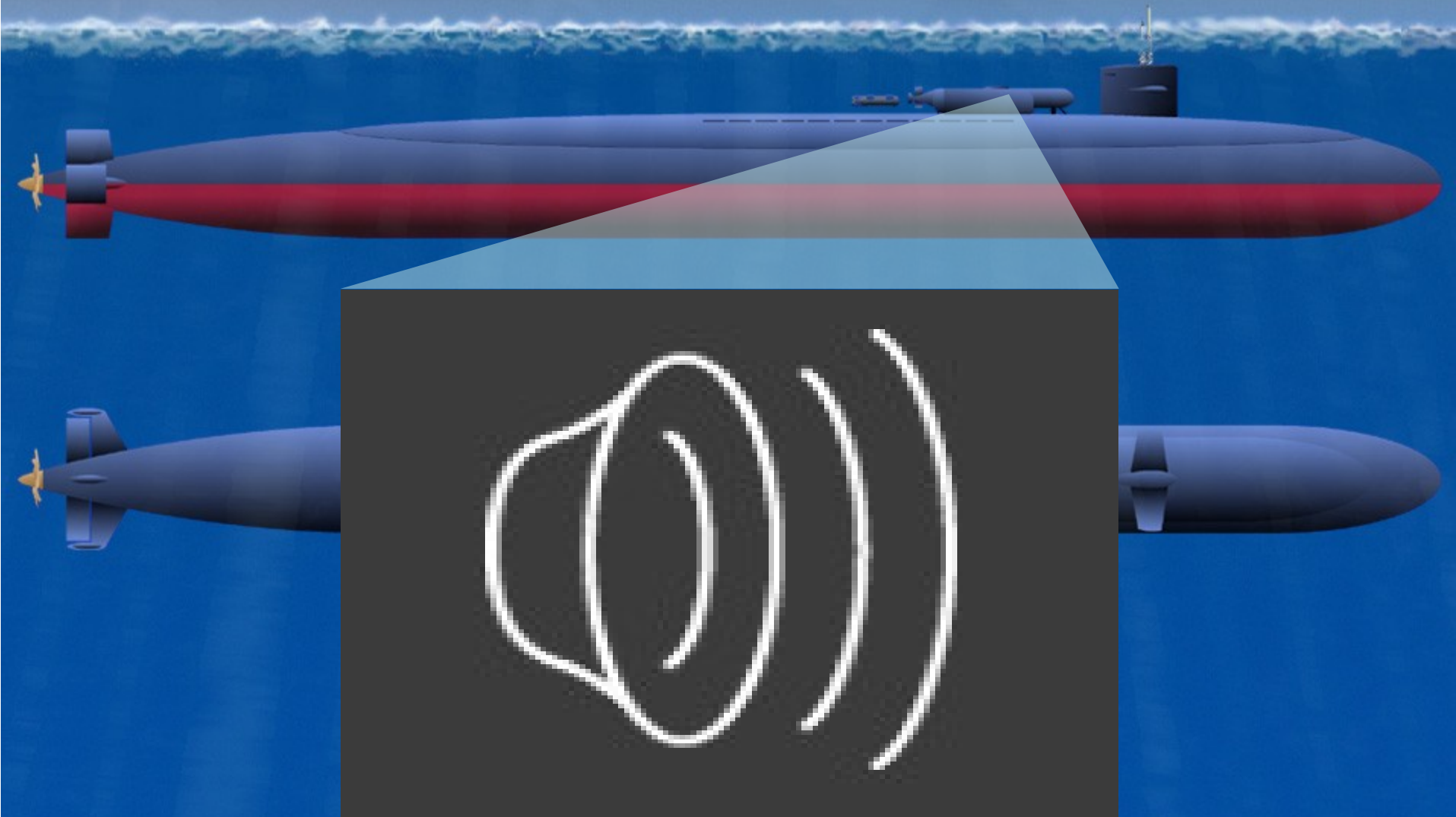
- **Most advanced, quietest submarine in the world**
- **Designed and built for post-Cold War environment**
 - Full SOF capability
 - Full spectrum operations
 - Deployed 4 years early
- **30 ship class**
 - 10 commissioned or delivered
 - 8 under construction
 - MYP authority



SSGN



SSGN

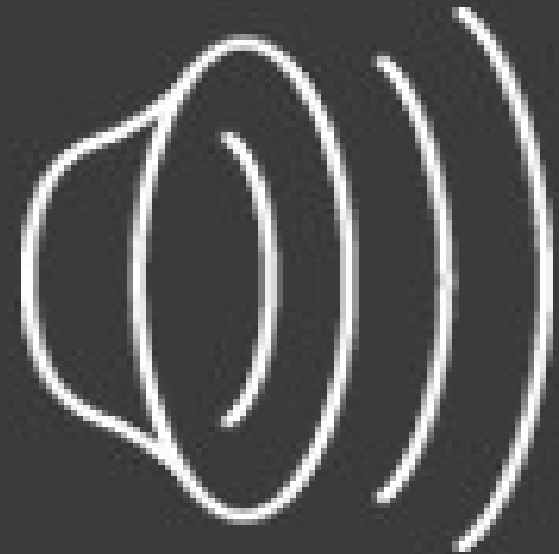


OHIO SSGN Capabilities

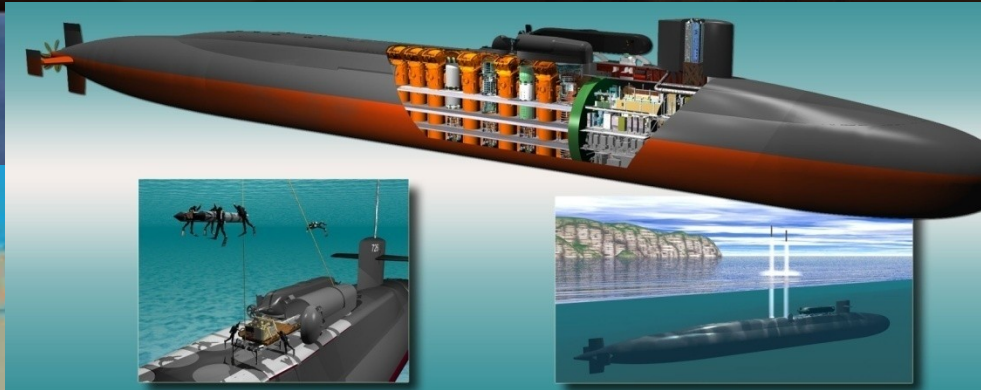
- **Dry Deck Shelter, Lock Out Chambers, TOMAHAWKs**
- **A-RCI & AN/BYG-1 Combat Control System TI-04 — APB 04**
- **Photonics Mast with ISIS**
- **Reconfigurable Battle Management Center 2.0 with**

Small Combatant Joint Command and Control

- **Common Submarine Radio Room**
- **AN/BLQ-10 Electronic Warfare System**
- **MK 48 Mod 7 ADCAP CBASS**
- **ASDS Capable by mid-deployment**



SSGN



154 TLAM
66 SOF for more than 60 Days
2 DDS / ASDS
8 Modular SOF Storage Canisters
Battle Management Center:
Joint Connectivity and Organic C2 Capability
Comms suite has double the antennas of an SSN
SOF Habitability & Training Facilities
SEASUB - Lock-In/Lock-Out, Ordnance Package



4 SSGNs = 2 to 3 in theater at all times

Submarine Force Emphasis

- ◆ **Maximize Operational Readiness**
- ◆ **Leaders who make right decisions**
- ◆ **Right people in the right places**
- ◆ **Adequate future capabilities**



UNITED STATES SUBMARINE FORCE

We Go Where Others
Can't . . .

